

006280" SET 5960

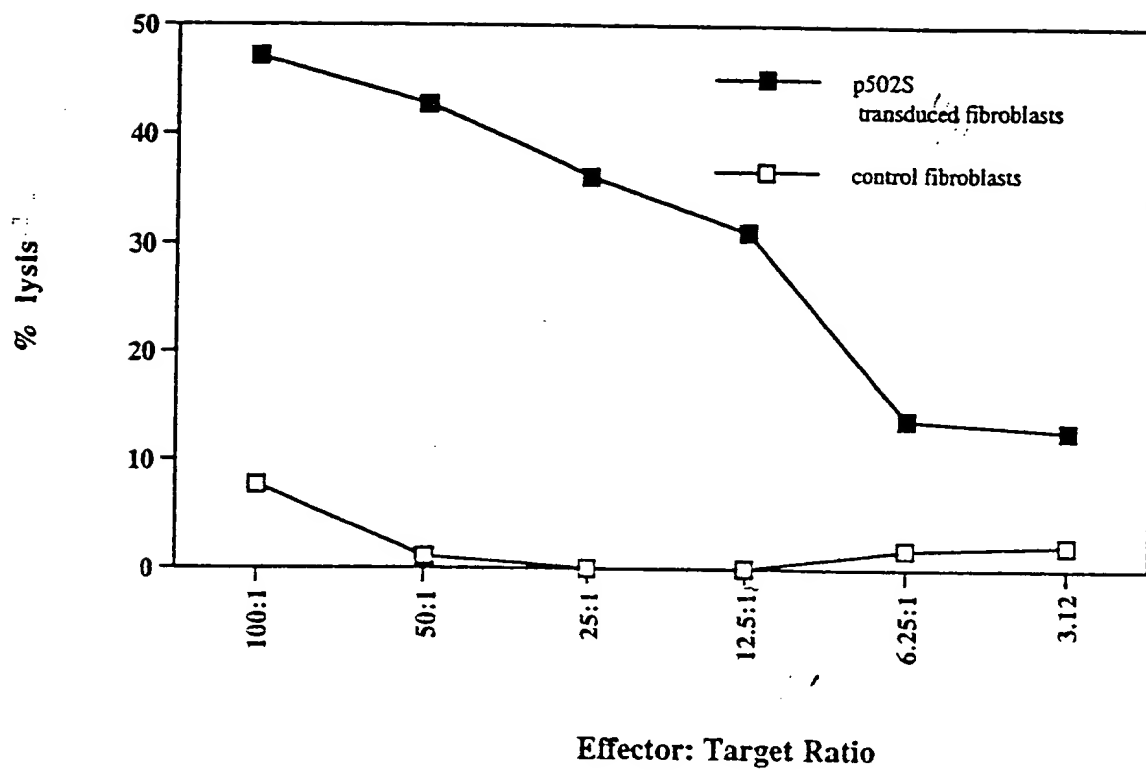


FIG. 1

006280" 922T5960

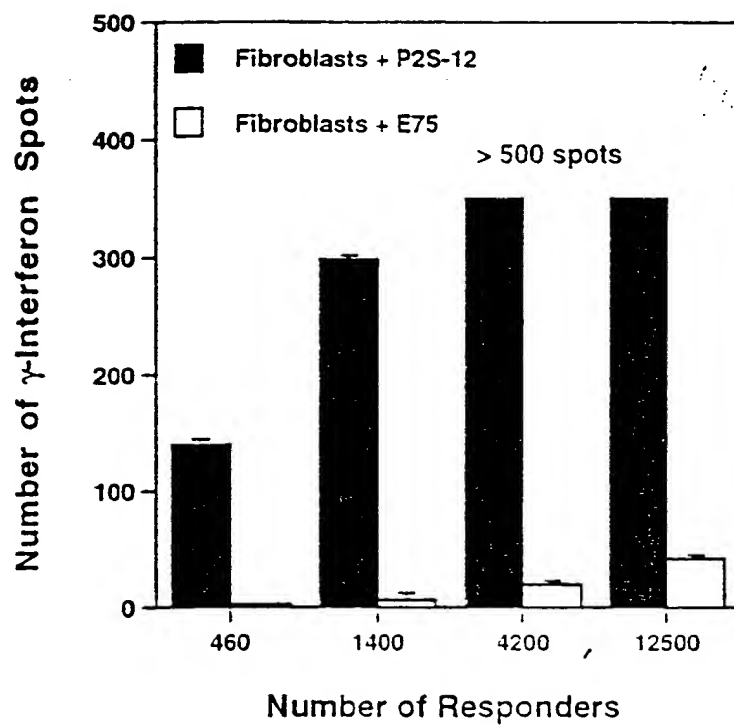


FIG. 2A

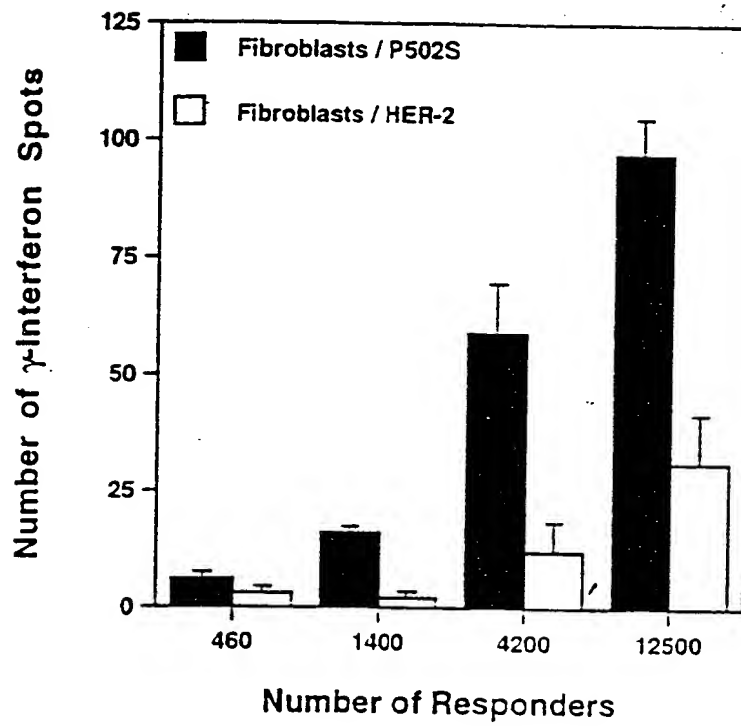
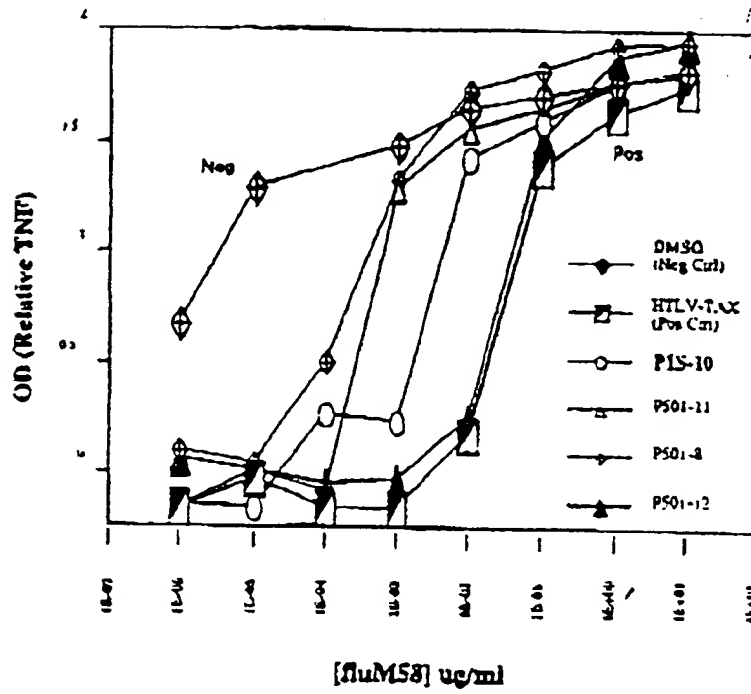


FIG. 2B

006280" 91275960



Figure

3

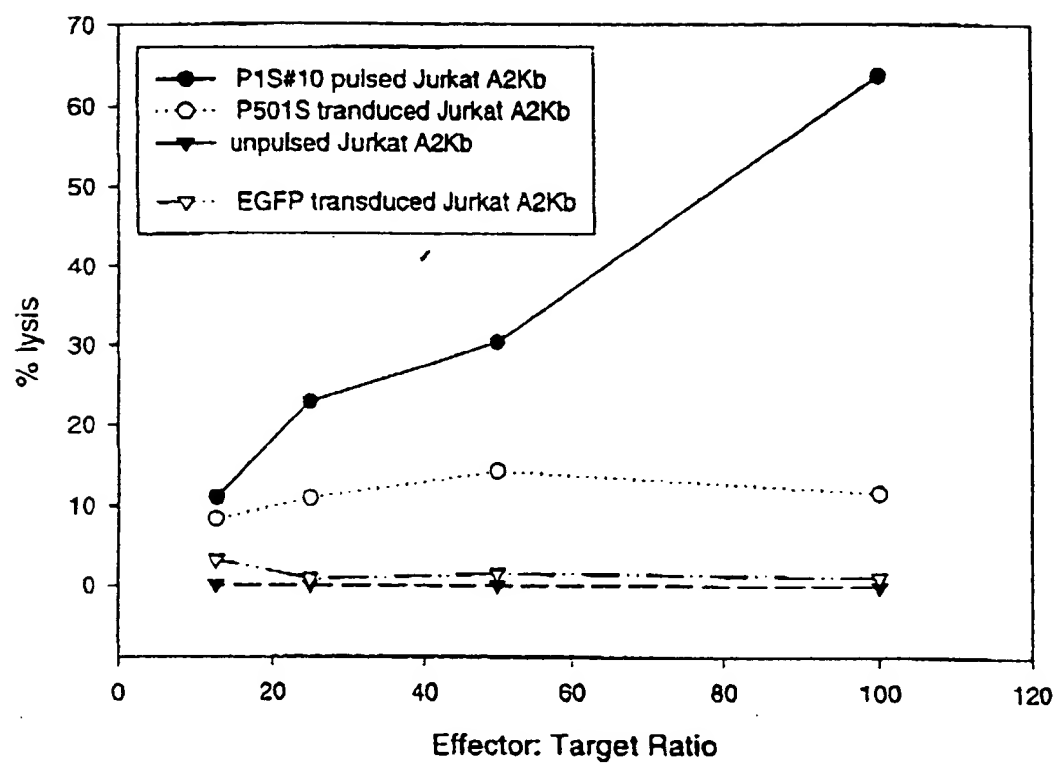


Figure 4

006280" 9E2T5960

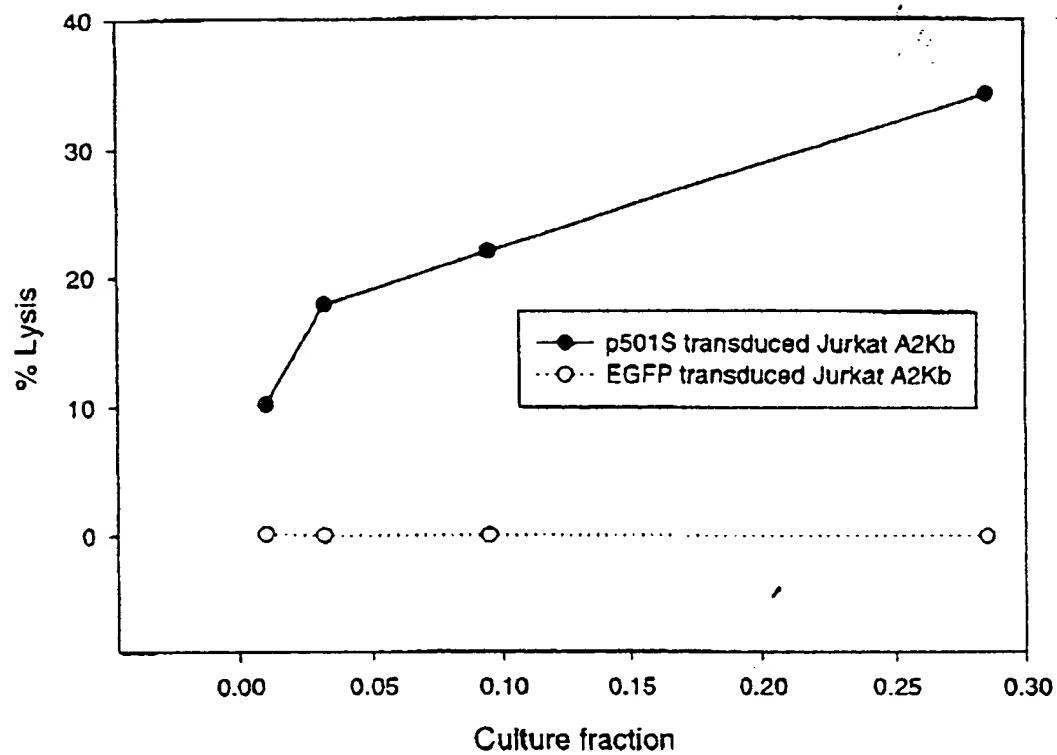


Figure 5

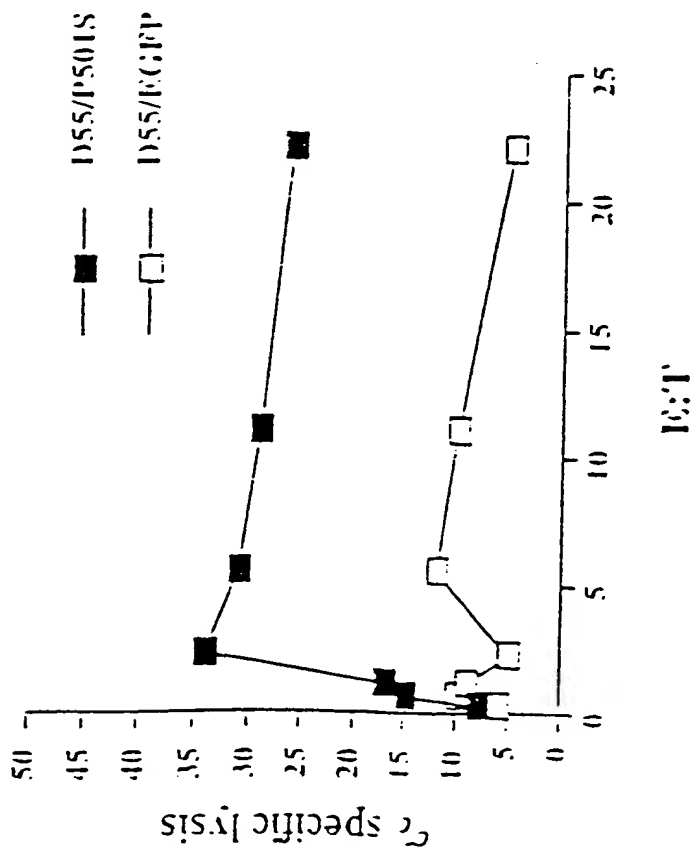


Fig. 6A

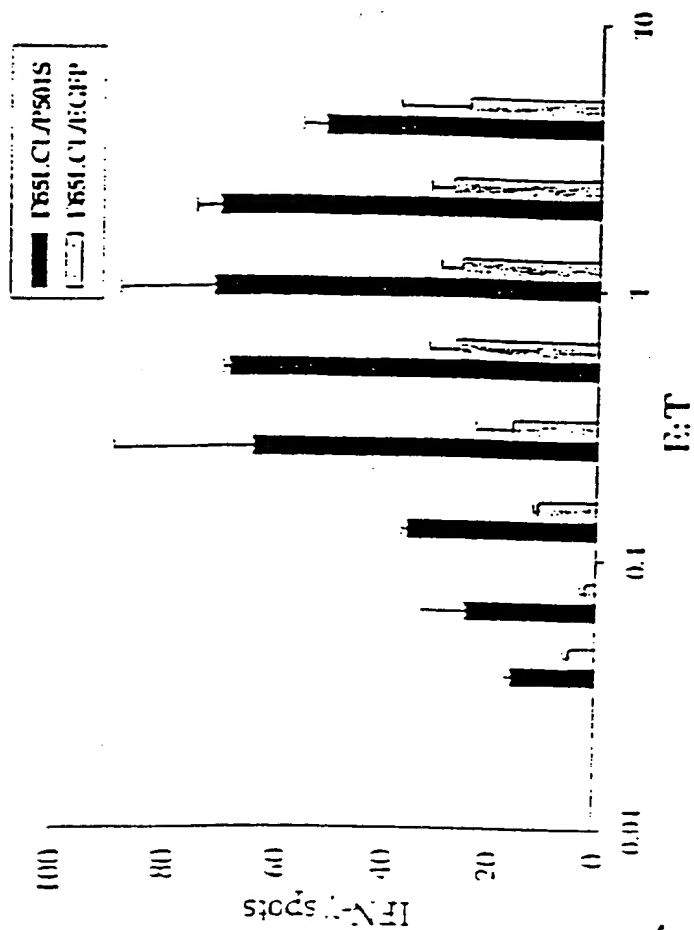


Fig. 6B

0907-1608

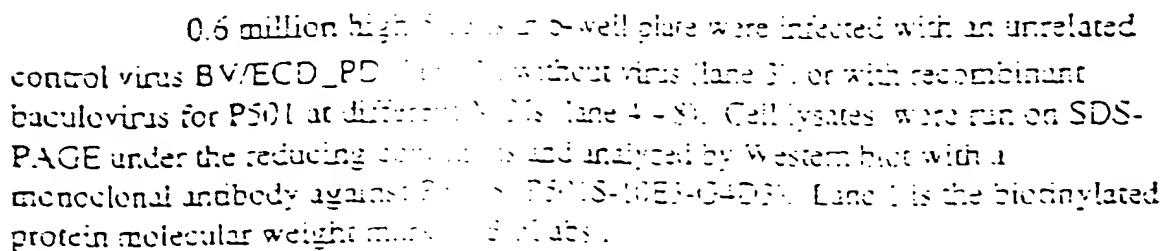


Fig. 7

Figure 8. Mapping of the epitope recognized by 10E3-G4-D3

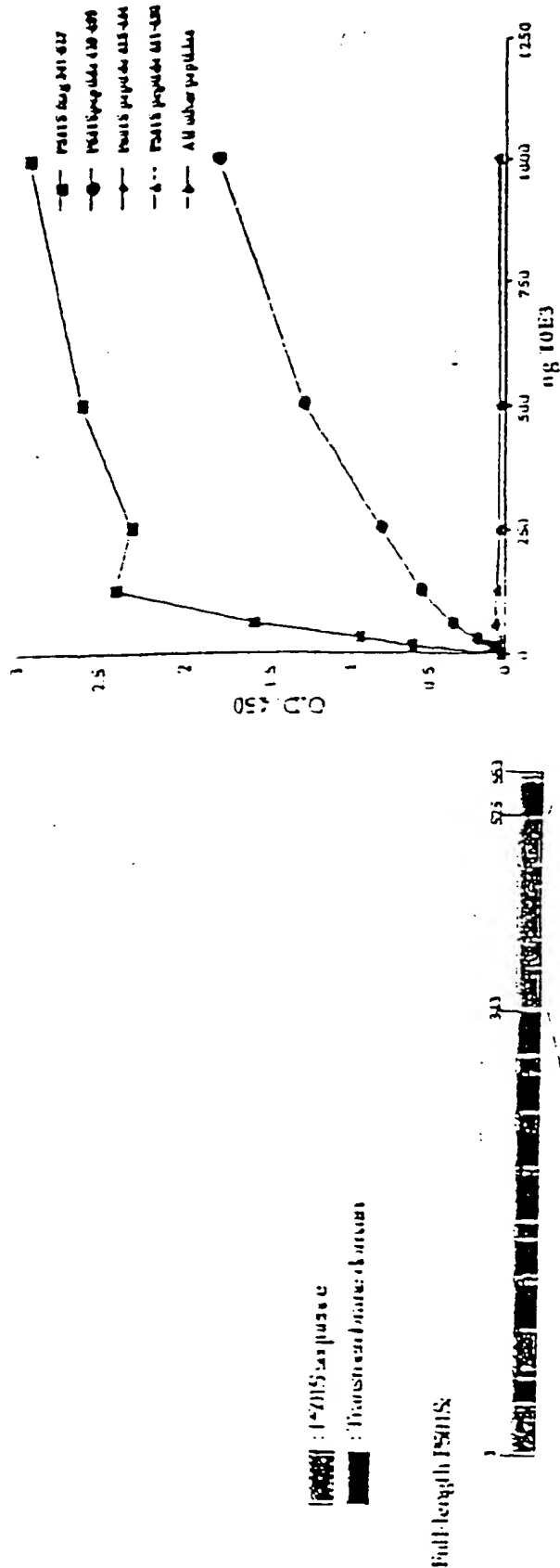
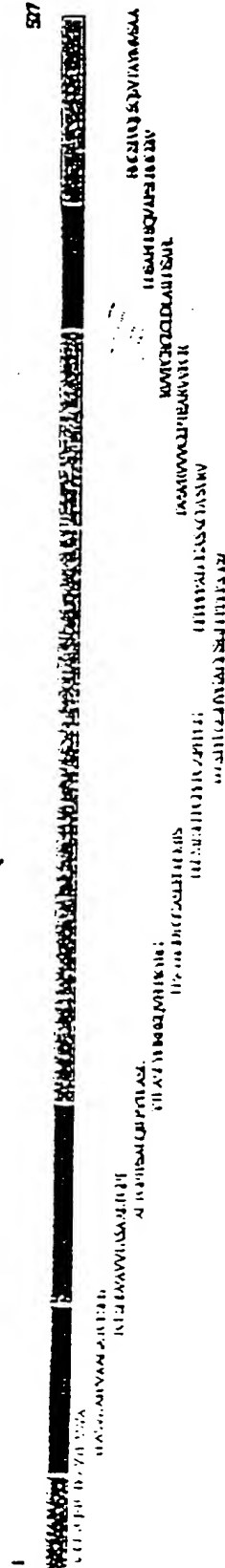


Fig. 8

PSNS fragment used for immunization:



7

Figure 1. Schematic of P501S with predicted transmembrane, cytoplasmic, and extracellular regions

AVQRCWVSRIRRK AQLIYNLLTTEGLEVCTAAGIT YVPPILLLEVGVVERKFM TMVLGIGPVYLGVCYPIIGSAS
 DWWRGRYGRRRP FIWALSIGILLSEPIPRAGWV AGILCTDPRPLE LALLHGVGLLDFCGQVCFIPL
 FALLSDLEFRDPDHCRQ AYSYVAFMSISGGCTGNYTFPI DVIDVSAIAPVLCIQEE
 CLPGLLETLPLTCTVNAATLY AFEAAIGPTEPAEGHSAPSPHCTPTARAFRNIGALLPRI
 HQLCCTRAPPTLRR LPVAFELCSWMAMTFTFYEDP VGRGCLYGGVTPRAKGTETARRHIYDEGVR
 MGSLGLFLQCAISLVESLYM DRIVQREFCTRAVYLAS VAAFPYAAGATCLSHSVAYVTA SAA
 LTGETSALOILPYTLASLY HREKQVFLPKYRGDTGGASSEDSTATSEFLPGPKPGAPFPNGIIVGAGGSGL
 LPPPPALCGASACDVSVRVVGTEPTEARVVPGRG ICLDLAHLPSAFLLSQVAPSEF MGSIVQLSQS
 VTAYMVSAAGLGLVAYFAT QVVFDKSDLAQYSA

Underlined sequence: Predicted transmembrane domain; Bold sequence: Predicted extracellular domain;
 Italic sequence: Predicted intracellular domain. Sequence in bold/underlined: used to generate polyclonal rabbit serum

Localization of domains predicted using HMMTOP (G.E. Tusnady and I. Simon (1998) Principles
 Governing Amino Acid Composition of Integral Membrane Proteins: Applications to topology Prediction.J.Mol Biol. 283,
 489-506.

Genomic Map of (5) Corixa Candidate Genes

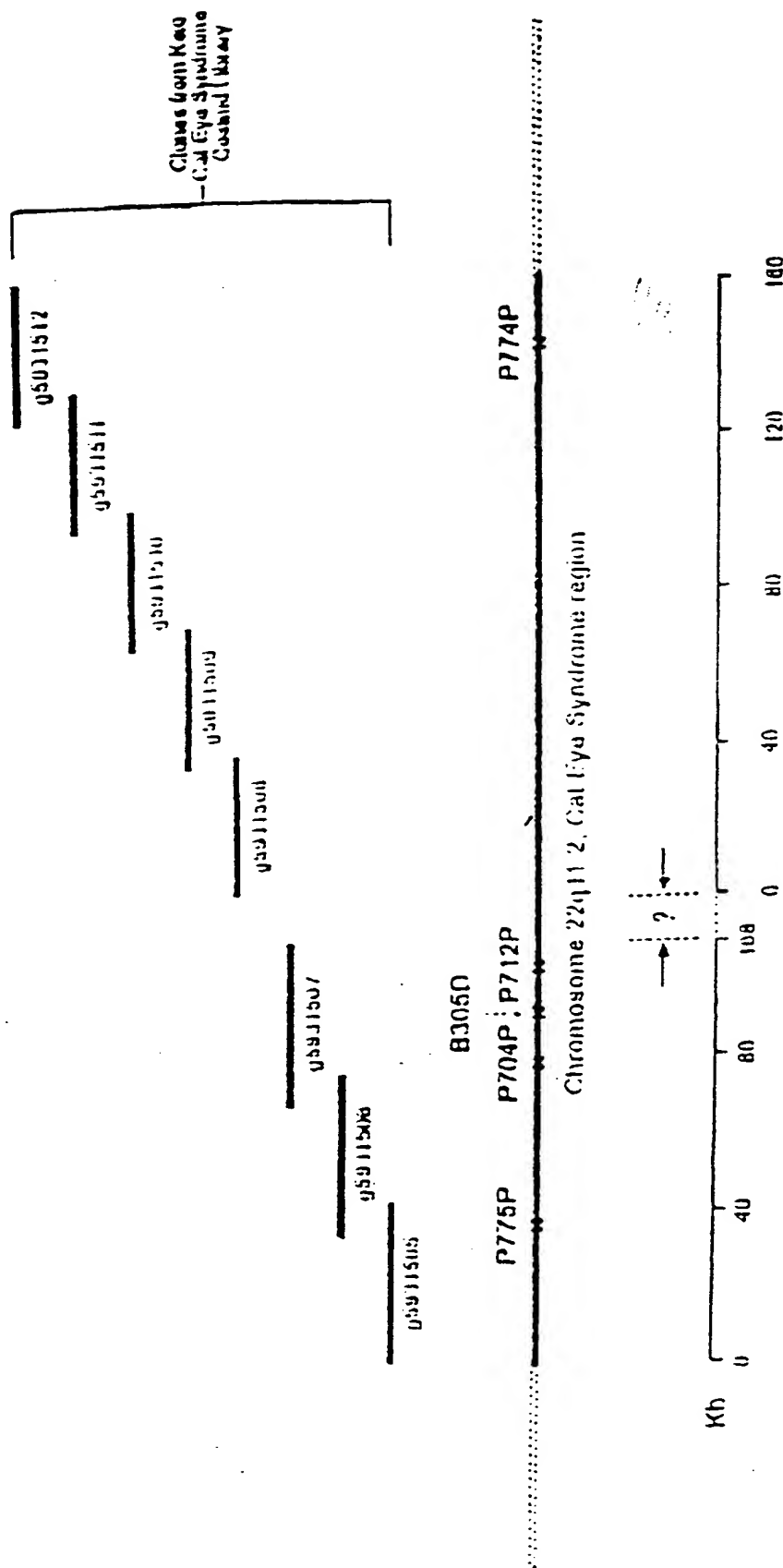


Fig. 10

11
FIGURE 4. Elisa assay of rabbit polyclonal antibody specificity

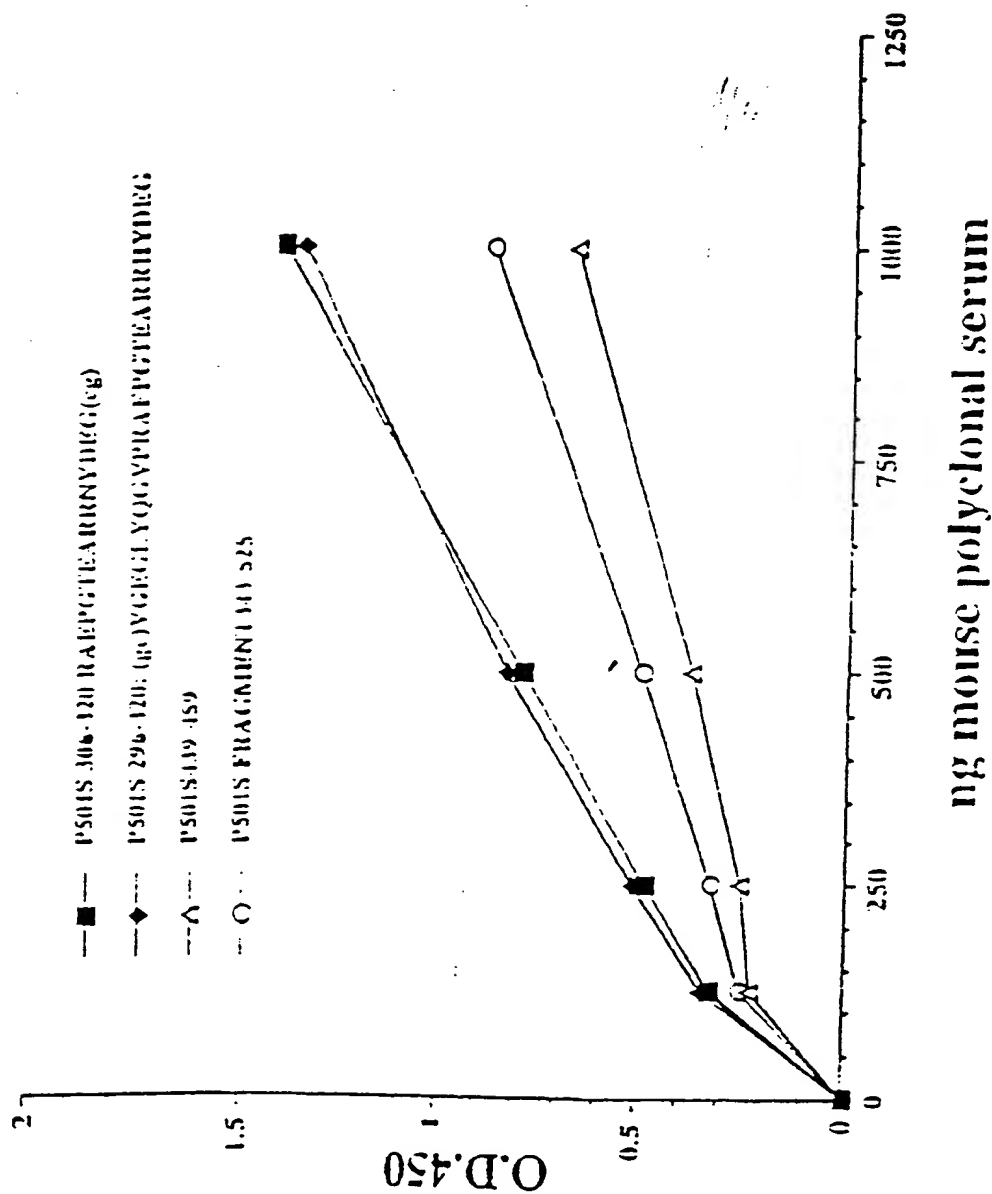


Fig. 11

10 20 30 40 50 60 70

GTCACCTTAGGAAAAGGTGTCTTTTCGGGCAGCCGGGCTCAGCATGAGGAACAGAAGGAATGACACTCTGG 70
ACAGCACCCCGGACCCTGTACTCCAGCGCGTCTCGGAGCACAGACTTGTCTTACACTGAAAGCGACTTGGT 140
GAATTTTATTCAAGCAAATTTTAAGAAACGAGAATGTGTCTTCTTTACCAAAGATTCCAAGGCCACGGAG 210
AATGTGTGCAAGTGTGGCTATGCCAGAGCCAGCAGCATGGAAGGCACCCAGATCAACCAAAGTGAGAAAT 280
GGAAC TACAAGAAACACACCAAGGAATTTCTTACCGAGCGCTTTGGGGATATTTCAGTTTGAGACACTGGG 350

360 370 380 390 400 410 420

GAAGAAAAGGGAAGTATATACGTCTGTCTGCGACACGGACGGGAAATCCTTTACGAGCTGCTGACCCAG 420
CACTGGCAGCTGAAAACAACCAACCTGGTCAATTTCTGTGACCGGGGGCGCCAAGAAGTTTCGCCCTGAAGC 490
CGCGCATGCGCAAGATCTTCAGCCGGCTCATCTACATCGCGCAGTCCAAAGGTGCTTGGATTCTCACGGG 560
AGGCACCCATTATGGCCTGACGAAGTACATCGGGGAGGTGGTGAGAGATAACACCATCAGCAGGAGTTCA 630
GAGGAGAATATTGTGGCCATTGGCATAGCAGCTTGGGGCATGGTCTCCAACCGGACACCCCTCATCAGGA 700

710 720 730 740 750 760 770

ATTGCGATGCTGAGGGCTATTTTTTAGCCCAAGTACCTTATGGATGACCTCACAAGGGATCCACTGTATAT 770
CCTGGACAACAACACACACATTTGCTGCTCGTGGACAAATGGCTGTGATGGACATCCCACTGTGGAAGCA 840
AAGCTCCGGAATCAGCTAGAGAAGCATATCTGTGAGCGCACTATTCAAGATTCCAATATGGTGGCAAGA 910
TCCCCATTGTGTGTTTGGCCCAAGGAGGTGGAAAAGAGACTTTGAAAGCCATCAATAGCTCCATCAAAAA 980
TAAAAATTCCTGTGTGGTGGTGGAAAGGCTCGGGCCGGATCGCTGATGTGATCGCTAGCCTGGTGGAGGTG 1050

1060 1070 1080 1090 1100 1110 1120

GGAGGATGCCCGACATCTTCTGCGTCAAGGAGAAGCTGGTGGCGCTTTTACCCCGCACGGTGTCTCGGC 1120
GTGTCTGAGGAGGAGACTGAGAATTTGGATCAAAATGGCTCAAAAGAAATTTCTCGAATGTTCTCACCTATTAAC 1190
TAGTTATTAAGATGGAAGAAGCTGGGGATGAAATTTGTGAGCAATGCCATCTCTACGCTCTATACAAAGCC 1260
GTTGAGCACCAGTGAGCAAGACAAGGATAAAGTGAATGGGCAGCTGAGGCTTCTGTGGAGTGGAAACAGC 1330
GTGGAAGTTAGCCAATGATGAGATTTTACCCAATGACCGCGGATGGGAGTCTGCTGACCTTCAAGAAATCAT 1400

1410 1420 1430 1440 1450 1460 1470

GTTTACGGCTCTCATAAAGGACAGACCCAAAGTTGTCCGCTCTTTCTGGAGAATGGCTTGAACCTACGG 1470
AAGTTTCTCACCCATGATGTCTCACTGAACTCTCTCCAAACCACTTCAGCACGCTTGTGTACCGGAATC 1540
TGCAGATCGCCAAGAATTCCTATAATGATGCCCTCTCTACGCTTTGTCTGGAAACTGGTTGCGAACTTCCG 1610
AAGAGGCTTCCGGAAGGAAGACAGAAATGGCCGGGACGAGATGGACATAGAAGTCCACGACGTGTCTCCT 1680
ATTACTCGGCACCCCTGCAAGCTCTCTTCATCTGGGCCATTCTTCAGAAAGGAAGGAAGTCTCCAAAG 1750

1760 1770 1780 1790 1800 1810 1820

TCATTTGGGAGCAGACCAGGGGCTGCACTCTGGCAGCCCTGCGAGCCAGCAAGCTTCTGAAGACTCTGGC 1820
CAAAGTGAAGAACACATCAATGCTGCTGGGGAGTCCGAGGAGCTGGCTAATGAGTACGAGACCCGGGCT 1890
GTTGAGCTGTTCACTGAGTGTACAGCAGCGATGAAGACTTGGCAGAACAGCTGCTGGTCTATTCTGTG 1960
AAGCTTGGGGTGGAAAGCAACTGTCTGGAGCTGGGGTGGAGGGCACAGACCAGCATTCACCGGCCAGCC 2030
TGGGGTCCAGAAATTTCTTTCTAAGCAATGGTATGGAGAGATTTCCGAGACACCAAGAAGTGGAGATT 2100

Fig. 12A (i)

2110 2120 2130 2140 2150 2160 2170

TCCTGTGTCTGTTTATTATACCTTGGTGGGCTGTGGCTTTGTATCATTTAGGAAGAAACCTGTGACA 2170
AGCACAAGAAGCTGCTTTGGTACTATGTGGGCTCTTCACCTCCCCCTTCGTGGTCTTCTCCTGGAATGT 2240
GGTCTTTCTACATCGCTTCTCCTGCTGTTTGGCTACGTGCTGCTCATGGATTTCCATTTCGGTGCCACAC 2310
CCCCCGAGCTGCTCCTGTACTCCCTGGTCTTTGTCTCTTCTGTGATGAAGTCAGACAGTGGTACGTAA 2380
ATGGGGTGAATTATTTTACTGACCTGTGGAATGTGATGGACACGCTGGGGCTTTTTTACTTCATAGCAGG 2450

2460 2470 2480 2490 2500 2510 2520

AATTGTATTTGGGCTCCACTCTTCTAATAAAAGCTCTTTGTATTCTGGACGAGTCATTTTCTGTCTGGAC 2520
TACATTATTTTCACTCTAAGATTGATCCACATTTTACTGTAAGCAGAACTTAGGACCCAAGATTATAA 2590
TGCTGCAGAGGAIGCTGATCGATGTGTCTTCTCCTGTTCTCTTTGCGGTGTGGATGGTGGCCTTTGG 2660
CGTGGCCAGGCAAGGGATCCTTAGGCAGAAAGAGCAGCGCTGGAGGTGGATATTCGTTTCGGTCATCTAC 2730
GAGCCCTACCTGGCCATGTTTCGSCCAGGTGCCAGTGACGTGGATGGTACCACGTATGACTTGGCCACT 2800

2810 2820 2830 2840 2850 2860 2870

GCACCTTCACTGGGAATGAGTCCAAGCCACTGTGTGTGGAGCTGGATGAGCACAACCTGCCCGGTTCCC 2870
CGAGTGGATCACCATCCCCCTGGTGTGCATCTACATGTTATCCACCAACATCCTGCTGGTCAACCTGCTG 2940
GTCGCCATGTTTGGCTACACGGTGGGCACCTGCCAGGAGAACAATGACCAGGTCTGGAAGTTCAGAGGT 3010
ACTTCTTGGTGCAGGAGTACTGCAGCGCGCTCAATACTCCCTTCCCTTCATCGTCTTGGCTTACTTCTA 3080
CATGGTGTGAAGAAGTGTCTCAAGTGTGTGTGAAGGAGAAAAACATGGAGTCTTCTGTCTGCTGTTTC 3150

3160 3170 3180 3190 3200 3210 3220

AAAAATGAAGACAATGAGACTCTGGCATGGGAGGGTGTGATGAAGGAAAACTACCTTGTCAAGATCAACA 3220
CAAAAACCAACGACACCTCAGAGGAAAAAGAGGCACTGATTTAGACAACTGGATACAAAGCTTAATGATCT 3290
CAAGGGCTCTCTGAAGAGAGATTGCTAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATA 3360
TAATTATAGCAAGATCATATTAAAGGAATGCTGATGAACAATTTTGTATCGACTACTAAATGAGAGATTT 3430
TCAGACCCCTGGGTACATGGTGGATGATTTTAAATCACCCTAGTGTGCTGAGACCTTGAGAATAAAGTGT 3500

3510 3520 3530 3540 3550 3560 3570

GTGATTGGTTTTCACTTGAAGACGGATATAAAGGAAGAATATTTCTTTATGTGTTTTCTCCAGAATGGT 3570
GGCTGTTTTCTCTCTGTGTCTCAATGGCTGGGACTGGAGGTTGATAGTTTTAAGTGTGTCTTACCGCCTCC 3640
TTTTTCTTTAATCTTATTTTGTATGAACACATAATAGGABAACATCTATCTATGAATAAGAACCTGG 3710
TCATGCTTTACTCCTGTATTGTATTTTGTTCATTTCCAAATGATTCTCTACTTTTCCCTTTTGTATT 3780
ATGTGACTAATAGTTGGCATATTGTAAAAATCTCTCAAAATTAGGCCAGATTCTAAACATGCTGCAGC 3850

3860 3870 3880 3890 3900 3910 3920

AAGAGGACCCCGCTCTCTTCAGGAAAAAGTGTCTTCACTTCTCAGGATGCTTCTTACCTGTGAGAGGAGGT 3920
GACAAGGGCACTCTCTTGTCTCTTGGACTCACCAGGCTCCTATTGAAGGAACACCCCTTCTTAATA 3990
TGTGAAAAGTCCGCCAAAAATGCAACCTTGAAAGGCACCTACTGACTTTGTCTTATTGGATACTCCTCTTA 4060
TTTATTATTTTCCATTAAAAAATAAGCTGGCTATTATAGAAAAATTTAGACCATACAGAGATGTAGAAA 4130
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4210 4220 4230 4240 4250 4260 4270

TTTTTTCTATGATGTCTCAATTTCTCTTCAAAATTTACAGAATGTTATCACTACATATATACTTT 4270
TTATGTAAGCTTTTTCACTTAGTATTTTATCAAAATATGTTTTATTATATTCAAGCCTTCTTAACATT 4340
ATATCAATAATTGCAATAATAGGCAACCTCTAGCGATTACCAATAATTTGCTCATTGAAGGCTATCTCCAG 4410
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Fig. 12A(2)

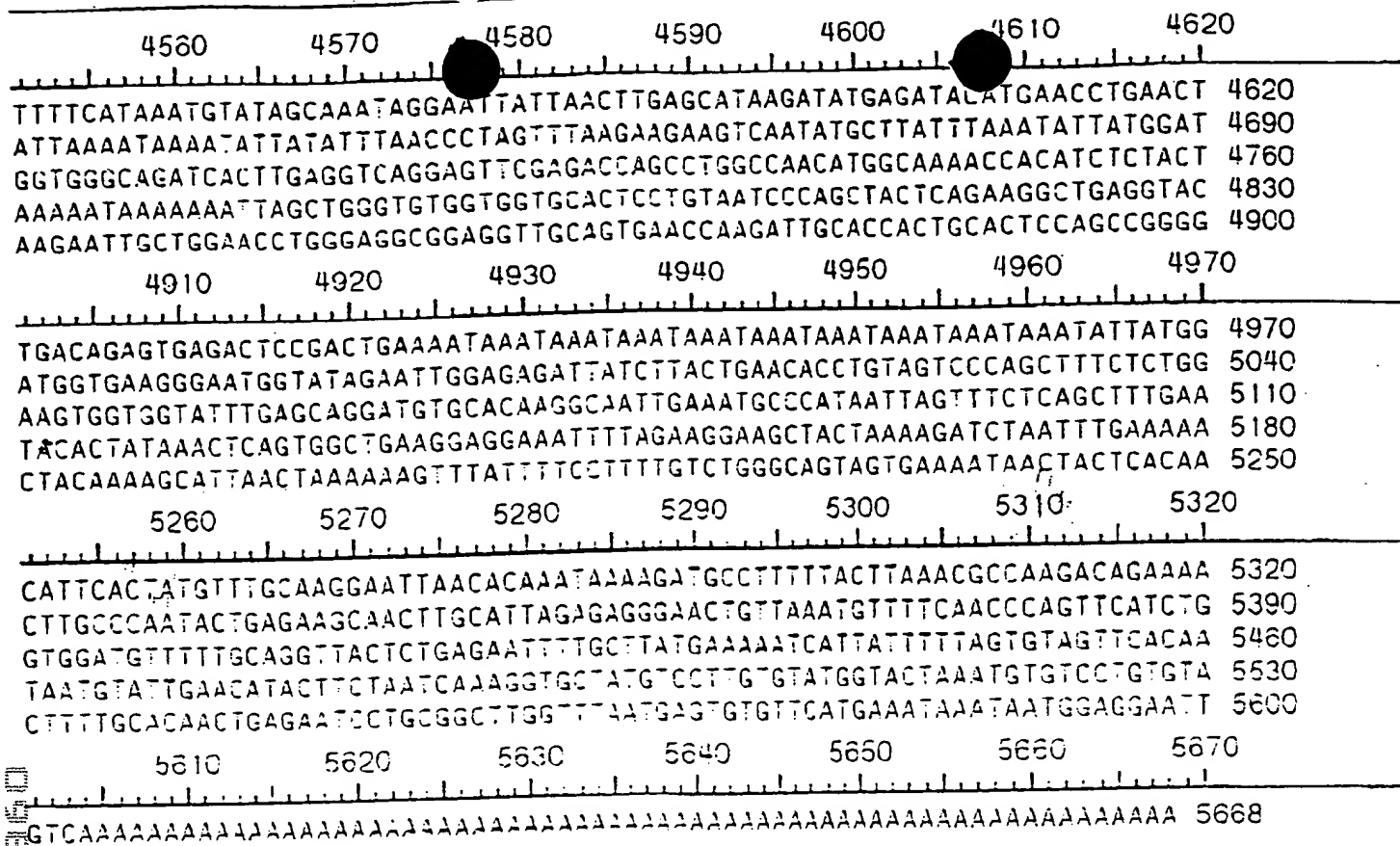


Fig. 12A(3)

10 20 30 40 50 60 70
 MRNRNDTLOSTRTRYSSASRSTOLSYSESOLVNF!QANFKKRECVFFTKDSKATENVCKCGYAQSOHME 70
 GTQINQSEKWNKKHTKEFPTDAFGDIQFETLGKKGKYIRLSCDTDAEILYELLTQHWHLKTPNLVISVT 140
 GGAKNFALKPRMRKIFSRLLIYAQSKGAWILTGGTHYGLTKYIGEVVRONTISRSEENIVAIGIAAWGM 210
 VSNRDTLIRNCDAEGYFLAQYLMDDFTRDPLYLONNHHTHLLLVONGCHGHPTVEAKLRNOLEKHSERT 280
 IQDSNYGGKIPIVCFAQGGGKETLKAINTS!KNK!PCVYVEGSGRIADVIASLVEVEDAPTSSAVKEKLV 350
 360 370 380 390 400 410 420
 RFLPRTVSRLSEEETESWIKWLKEILECSHLLTV!KMEEGDEIVSNAISYALYKAFSTSEQOKDNWNGO 420
 LKLLLEWNCLDLANDEIFTNDRRWESADLOEVMFTALIKDRPKFVRLFLEGLNLRKFLTHOVLTELSN 490
 HFSTLVYRNGLIAKNSYNDAALLTFVWKLVANFRRGFRKEORNGRDEMDELHGVSPITRHPLQALFIWAI 560
 LONKKELSKVIWEGTRGCTLAALGASKLLKTLAKVKNDINAAGESEELANFETRAVELFTECYSSOEDL 630
 AEQLLVYSCEAWGGSNCLELAVEATDQHFTAQPGVONFLSKQWYGEISROTKNWK!ILCLFIIPLVGCGF 700
 710 720 730 740 750 760 770
 VSFRKKPVCKHKKLLWYYVAFFTSPFVVFVSWNVVFYIAFLLLFAYVLLMCFHSPHPPPELVLYSLVFVLF 770
 COEVRQWYVNGVNYFTDLWNVMDTLGLFYFIAGIVFRHSSNKSSLYSGRVIFCLOY!IFTLRLIHIFTV 840
 SRNLGPKIIMLQRMLOVFFFLFLFAYWMVAFGVARGGILRONEQRWRWIFRSVIYEPYLAFFGQVPSOV 910
 DGTTYDFAHCTFTGNESKPLCVELDEHNLPRFENITIPLYCIVMLSTNILLVNLVAMFGYTVGTVGEN 980
 NDCVWKFGRYFLVQEYCSRLNIPFPFIVFAYFMMVKKCFKCCCKEKNMESSVCCFKNEDNETLAWEGVM 1050
 1060 1070 1080 1090 1100 1110 1120
 KENYLVK!NTKANOTSEEMRHRFRQLOTKLNCLKGLKE!ANKIK. 1096

Fig. 12B